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CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

COUNTRY China

SUBJECT Shanghai: Location of Shanghai Power Company Sub-Stations/Transmission and Distribution Cables in Operation/Route Length of Overhead Lines in Operation

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Location of Substations
and source of supply22000 Volt Distribution

Yangchow Substation - Two miles west of the generating plant supplied by two .2 sq inch and three .15 sq in 22,000 volt cables

Fearon Road Substation - Two miles west of Yangchow. Supplied by six .15 sq inch and two .2 sq inch cables from Riverside

Connaught Road Substation

- Three miles west of Fearon Road. Supplied by three .2 sq inch cables from Riverside.

Tonquin Substation

- One mile due north of Connaught Substation. Supplied by five .2 sq inch and two .15 sq inch cables from Riverside and two .15 sq inch cables from Fearon Road.

Robison Substation

- About 1½ miles from both Connaught and Tonquin Substations, being located at the third point of an equilateral triangle joining the three substations. Thus it is located about one mile farther west than Tonquin and Connaught. Supplied by three .2 sq inch cables from Riverside and two .2 sq inch cables from Tonquin.

Brennan Substation

- Located two miles west of Robison, outside the Settlement limits. Supplied by two .15 sq inch cables from Robison.

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Both Yangchow and Comnaught Substations are fed directly from Riverside Plant without any 22 kv interconnection with the other substations on the system. Fesron Road, Tunquin and Robison are interconnected by tie feeders and Brewster is supplied radially from Robison. However, the 22,000 volt busses at Fesron, Tunquin and Robison are not interconnected for operating purposes.

6000 Volt Distribution

It is the custom to supply a minor switching point from a major supply substation and to regulate all or part of the substation bus supplying the related feeders. Except for outlying sections each of these 6600 volt substations is supplied by a separate feeder.

Transmission and Distribution Cables in Operation (Miles)

System Voltage	At end of 1938		Net Increase for 1939	At end of 1939		Distribution only
	In Operation (A)	Not in Operation (B)		sub-Totals	Grand Total (A + B)	
<u>Miles</u>						
23,000	240.0604	0.7150	5.3143	245.3747	246.0897	
					0.7150	
6,600	182.2807	8.0585	5.5596	182.8403	190.9207	
					8.0585	
380	48.2991	1.7693	.1409	48.4400	50.2218	
					1.7693	
Total Length of Power Cables	481.1830	6.0492	6.0492	487.2322	487.2322	
Telephone and Pilot	In Operation (A)	Not in Operation (B)	155.6835	5.4981	161.1816	
					3.0504	
						164.2320

Cables "not in operation" are pot ended buried cables.

Underground Cables In Operation

Voltage, Type, Size and Length (Miles)

System Voltage	Type of Cable	Armour	Size Sq Inch	Length (Miles)
23,000	Belted, solid	P I L C & D S T	.1	0.10
"	" , split	"	.15	70.01
"	" "	"	.20	71.44
"	H S L, solid	P I L C & S W A	.1	0.75

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System voltage	Type of Cable	Armour	Size Sq Inch	Length (Miles)
23,000	H S L, solid	P I L C & S W - A	.2	61.26
"	" split	"	.2	24.05
"	H solid	P I L C	.2	3.90
"	H solid	P I L C & D S T	.2	2.54
"	H solid	"	.4	9.24
"	H solid	P I L C	.4	2.35
"	Miscellaneous	-	-	0.43 246.09
6,000	Belted, solid	P I L C & D S T	.025	30.70
"	" "	"	.05	1.94
"	" "	"	.06	1.47
"	" "	"	.1	20.19
"	" "	"	.15	43.07
"	" "	"	.2	34.04
"	" "	"	.2	23.87
"	" "	"	.3	31.46
"	Miscellaneous	-	-	4.18 180.92
380	Belted, solid	P I L C & D S T	.0084	3.06
"	" "	P I L C	.0084	2.76
"	" "	P I L C & D S T	.028	1.51
"	" "	"	.05	1.15
"	" "	"	.075	1.92
"	" "	"	.15	0.67
"	" "	"	.25	6.41
"	" "	"	.3	4.21
"	" "	P I L C & D S T	.4	27.67
"	Miscellaneous	-	-	0.86 50.22
Pilot	Belted, solid	-	.0045	13.25
"	" "	-	.0084	88.74
"	" "	(6 pair)	(x .0084)	10.06
"	" "	(4 pair)	(4 pair)	112.05

Route Length of Overhead Lines in OperationMiles

	In Operation at end of 1938	Erected During 1939	Dismantled	Net Incer- ase in 1939	Lines in Opera- tion at end of 1939
6,000 volt feeders and distributors	19.1767	3.5751	0.3153	3.2598	22.4365
380/220-v Road Mains	127.2232	2.2793	0.9508	1.3205	128.5517)
380/220-v-Alley- way mains	351.8638	14.0941	6.6360	7.4581	359.3219)
Total Distribution Lines	498.2637	19.9485	7.9021	12.0464	510.3101
Street Lighting	560.3354	15.8147	6.7547	9.0600	569.3954
B C Circuits	5.8541	-	-	-	5.8541
Auto Telephone	0.9711	0.0352	-	0.0352	1.0063

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